

This is Alfin cDNA sequence of the clone as submitted to GenBank #L07291

GAATTCCCTTGACTTTGTTGAAATTGAGGATGGAAGGAATGGCACAGCACCCA
GTACCTCGAACTGTTGAAGAAGTTTACCGATTACAAAGGCAGACGCCGGT
TTGATCAAAGCTCTCACTACTGACGTTGAAAAGTTTACCAAGCTCGTCGATCGC
GAAAAGGAGAATTGTCGCCTCTATGGGTTCCAATGAAACATGGGAAGTGAAC
TTGCCTGTTGAGGAAGTGCCTCCTGAACCTCCCCGAGCCAGCATTGGGTATAAA
CTTGCTCGGGATGGAATGCAGGAGAAGGACTGGTTATCACTGGTTGCAGTTC
ACAGTGACTCATGGCTGCTCGCTGTTGCTTCTATTTGGTGCCCCGCTTGG
ATTTGGTAAGAATGATAGGAAAAGGCTTTTCAGATGATAATGA
TCTGCCACAGTCTTGAGCTTGCAACAGGAAGTCTAAGCAATCAAAGGAC
CAACTGACTGCTCACACAATGGTAGCAATAGCAAATACAAATCAAGTGGAAAGT
CCCGCCAGTCTGAATCCCAGACCAAGGGTGTGAAGATGTCCTGCACCGGTCAAAG
AAGAGGTTGACAGTGGAGAAGAAGAGGAAGAAGATGATGATGAACAAAGGTGCAAC
CTGTGGTGCTTGTGGTGATAATTATGGCACCGATGAATTCTGGATCTGTTGT
GATATGTGCGAGAAATGGTCCATGGTAAATGTGTTAAATTACTCCTGCCAAG
GCTGAACACATCAAGCAATACAAGTGCCTGGCTGCAGTATCAAGAAGCCAAGAA
TTGGATAGCTCTGAACGTTGGACCATTAGCGGGCAAGATTAATGTTGTTA
GCATTTCTGTAAGTGAACACCATTGTTGTCAGTCACCTAAAGGAATTCC

FIG. 1A

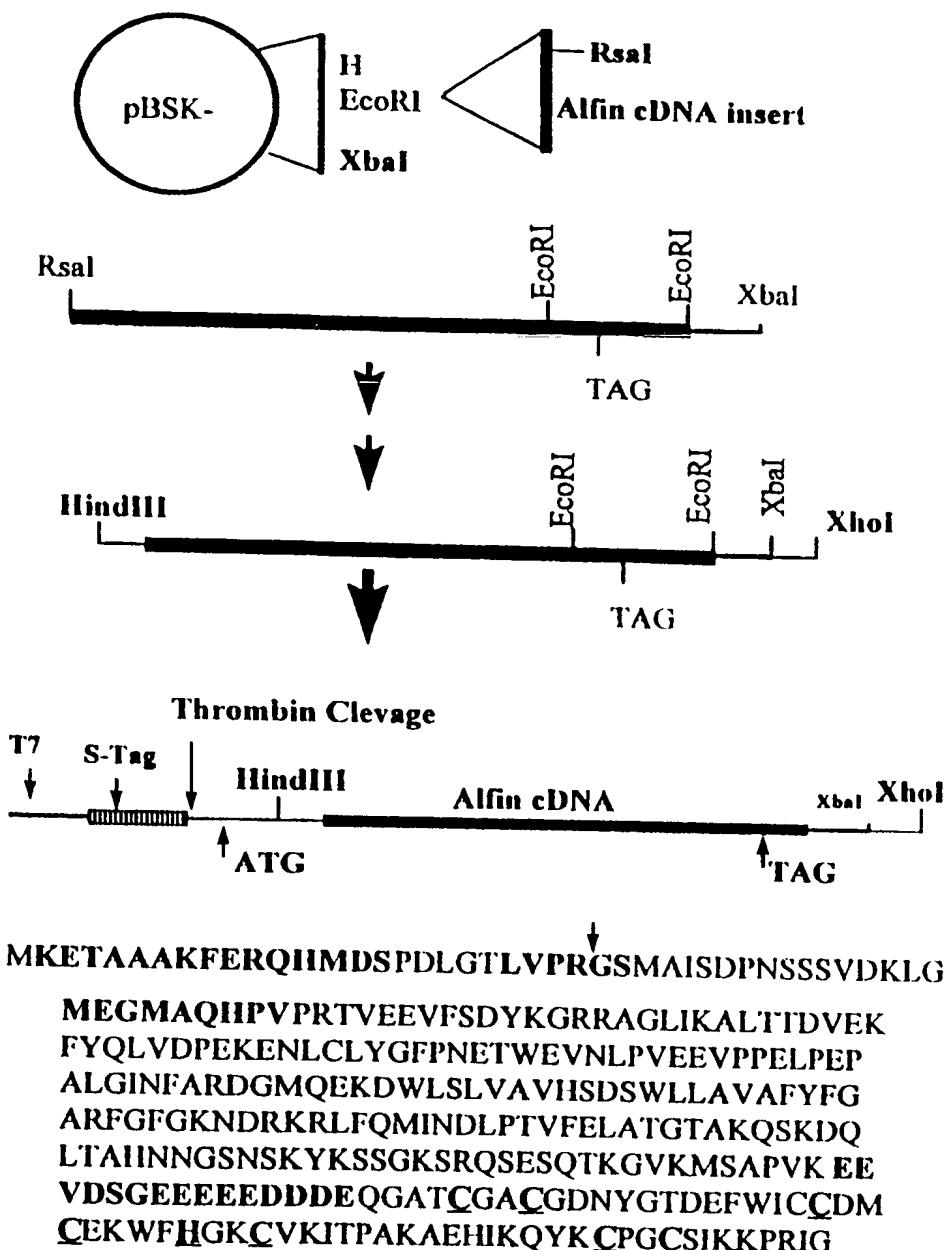


FIG. 1B

DNA Sequences that bind Alfin *in vitro*

<u>Clone</u>	<u>Sequence</u>
<u>5' primer</u>	<u>Insert</u>
6	5'GACG-GCTGGGGAAAGT <u>GAGCGGTGGCCC</u> 3'
7*	GACG-CAAAGGGGGT <u>GGGGACGGCGCTTT</u>
18*	GACG-CAAAGGGGGT <u>GGGGACGGCGCTTT</u>
15	GACG-GGTAGGGT <u>GTGGGGGTGTTTATT</u>
16	GACG-GGGATA <u>AGGTGAGGTGGAGGGACAAT</u>
22	GACG-GCAGAAGGGAGAA <u>ACGTGGAGAATC</u>
25	GACG-GCGGA <u>AGGAGTGTGGTAGAGAGCC</u>
21	GACG-AAGGA <u>AGGACGGCAGCGTGTTC</u>
5	GACG-AAA <u>ANTTANANGTGTAGGTGGACT</u>

* - individual isolates

Consensus: 2-5 Triplets bordered by G and containing at least one GTG, most conforming to the high affinity Zif268 binding sites

MsPRP2 Fragments

211	coding	5' ⁻²⁹⁹ <u>GTGTGGGGCCC</u> ⁻²⁸⁹
	non-coding	5' ⁻³⁹⁰ <u>AAAGTGGGGGCA</u> ⁻³⁹⁸
218	non-coding	5' ⁻⁸²⁶ <u>GATGTGTGTGTTTC</u> ⁻⁸³⁸
187	non-coding	5' ⁻⁵⁰⁴ <u>CAAGTGGTGCTG</u> ⁻⁵¹⁵
	non-coding	5' ⁻⁴⁶³ <u>AAAGCGGTGCTG</u> ⁻⁴¹⁴

TTTTATAAATATTAAGCTTGATAATAATTTGCGATCTATATATAAGCCAC-1501
 TACCAATTAAAATTATATATATATATATATATATATATAATAATTTTATT-1441
 ATATTTATTACGTTGATGGTAAAAAAATAATATAATTGTTACCATTTAAAAGTCATAA-1381
 ATATAGTACAATCCAACCCCTTGAGAGGTTAATGTGTGCGGATTTCTAGATAAACAA-1321
 GGTGCCATTACGATTCTTCTGGTGCAGCTGGAGAACCTATCCTGGGCTTGGAAAGAT-1261
 TTACTTCTTGTGATGCTTCTAGACTACAGCTCCTTAAGGCTGTAGTCTAGTTTTTT-1201
 TCATCCTCCTACCAAAAAAAAGTCATAAATATAGTTATACATATAACTTTAATA-1141
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 CATTTTTTGGAACATGAAGGGTATTGATTTTACACCTTTACACCTTCAAAGCCAT-901
 TCAAGGATGAATATAAGATTGGCGATCAAACACAAGAATCATTACGATAACATGCTT-841
 T_{fi}
 TGGAACACACACATGCTAAATTAAATGGTTGGAGTATCAAATTAAAATTGTTGTCA-781
 Alfin1^{*}/myc myb^{*}
 ATACATACCCGGTCAATCTCTTTTACCCAATAAACATTGAAATGTTGCTCTTC-721
 Alfin1^{*}
 GTTAAGCATAAAACATCAAAGTCTAGCAAATGTTGTTTGCATGACACATTTCATA-661
 TAGTTAAAGGATGCATGATTGATTACAAAAACAAACTAATAATTCTAGCACAAAG-601
 T_{fi}
 TTTAAAGCAAGATTATAAGCTTCATAGCATGTGGATATTCAATTAGAAATATAGATTAG-541
 myc
 ATTGCCCTTTCATCACGGGTCTAACAGCACCACTTGTCACTACATGTCAAAATGTCCT-481
 myb/Alfin1^{*}/myc
 CTAGTACAGCACCCGTTTACTTGATCCCCCTTGTCCATGCATGAAAAAAATCAAACA-421
 Alfin1^{*} T_{fi}
 ATATTGGACACACAAACTTGCCCCACTTCCCTTTCTTCTGCCCTAGTTGTTGA-361
 Alfin1^{*}
 GACTCATATTGATCAAATTGGCTATGAATTCAAACAAAAATTCACTCTACCCATTGCA-301
 myc
TGTGTGGGGCCCACATATAAATCCATGAAGGATTCAATGTCCATCCAAGTCAATGATT 241
 Alfin1 T_{fi}
 AACATATATAACATTGAATAATTAAATTCAATTGCACTATTATGATTAGATTGATTG-181
 CTGCAATACGGTCCGTGAATGTGATCACTCACGAGAAAGAGGTATCAAATTCAAGGTA-121
 TTTTATTATTAAACAAATAAAATTCAAGGTCTTGTCACCATAAACCTCCTCAC-61
 TCACACCCAAATTCTCTTAAGTGTATGACTCATAGTACACTACACTACTTCTTGAAAC-1
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 Met

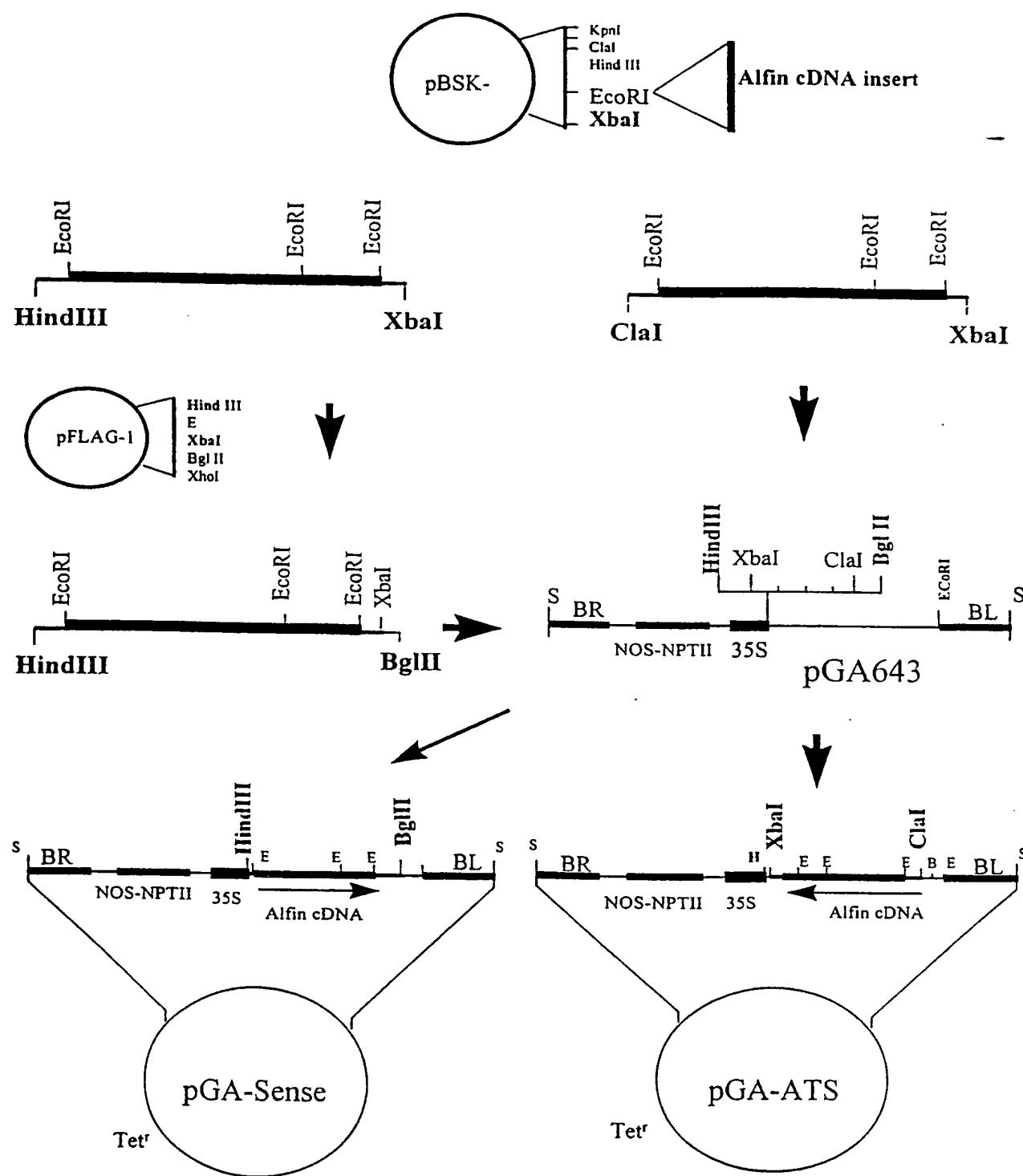


FIG. 4

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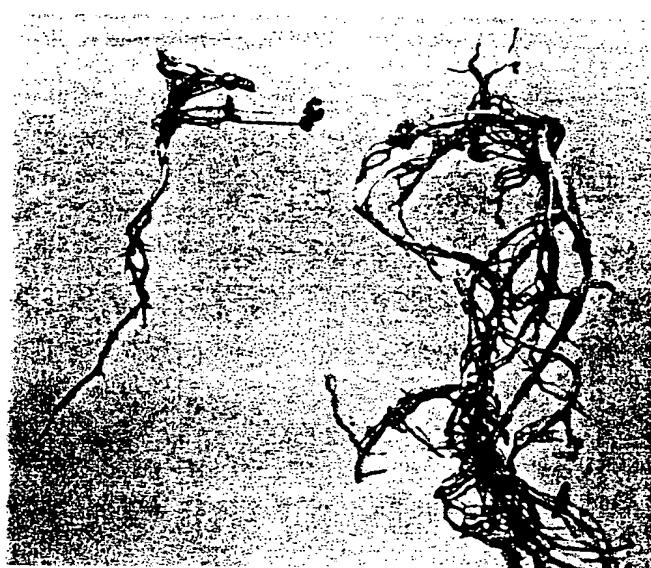
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FIG. 5



A



B

FIG. 5 (continued)

CALLUS

	NaCl	Tolerant		Sensitive						
		-	+	-	-	-	-	-	+	
Transgenic	-	-	-	-	1V	S1	S6	S4	S2	S2

Alfin1**MsPRP2****Msc27****FIG. 6A****Con S1 S2 S3 V****Alfin1****pGA-vector****Msc27****FIG. 6B****SUBSTITUTE SHEET (RULE 26)**

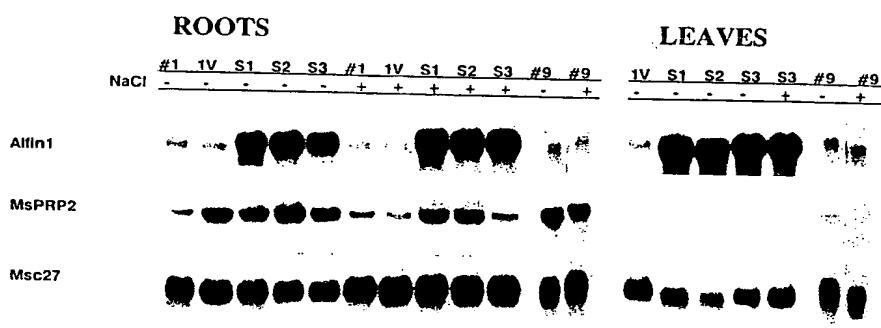


FIG. 6C